

1/7

NH<sub>2</sub> Phe Pro Ile Pro Leu Pro Tyr Cys Trp Leu Cys Arg Ala Leu Ile  
Lys Arg Ile Gln Ala Met Ile Pro Lys Gly Ala Leu Ala Val Ala Val  
Ala Gln Val Cys Arg Val Val Pro Leu Val Ala Gly Gly Ile Cys  
Gln Cys Leu Ala Glu Arg Tyr Ser Val Ile Leu Leu Asp Thr Leu  
Leu Gly Arg Met Leu Pro Gln Leu Val Cys Arg Leu Val Leu Arg  
Cys Ser Met-COOH

## FIG. 1

*Native Human SP-B 1-25*

NH<sub>2</sub>-F P I P L P Y C W L C R A L I K R I Q A M I P K G - COOH

*SP-B 1-25 (Cys-11 > Ala-11) variant monmer*

NH<sub>2</sub>-F P I P L P Y C W L A R A L I K R I Q A M I P K G - COOH

*Amino acid sequence of SP-B 1-25 (Cys-11 > Ala-11) variant monmer*

## FIG. 2

*SP-B 1-25 (Cys-11 > Ala-11) variant disulfide linked homodimer*

NH<sub>2</sub>-F P I P L P Y C W L A R A L I K R I Q A M I P K G - COOH

|  
S

|  
S

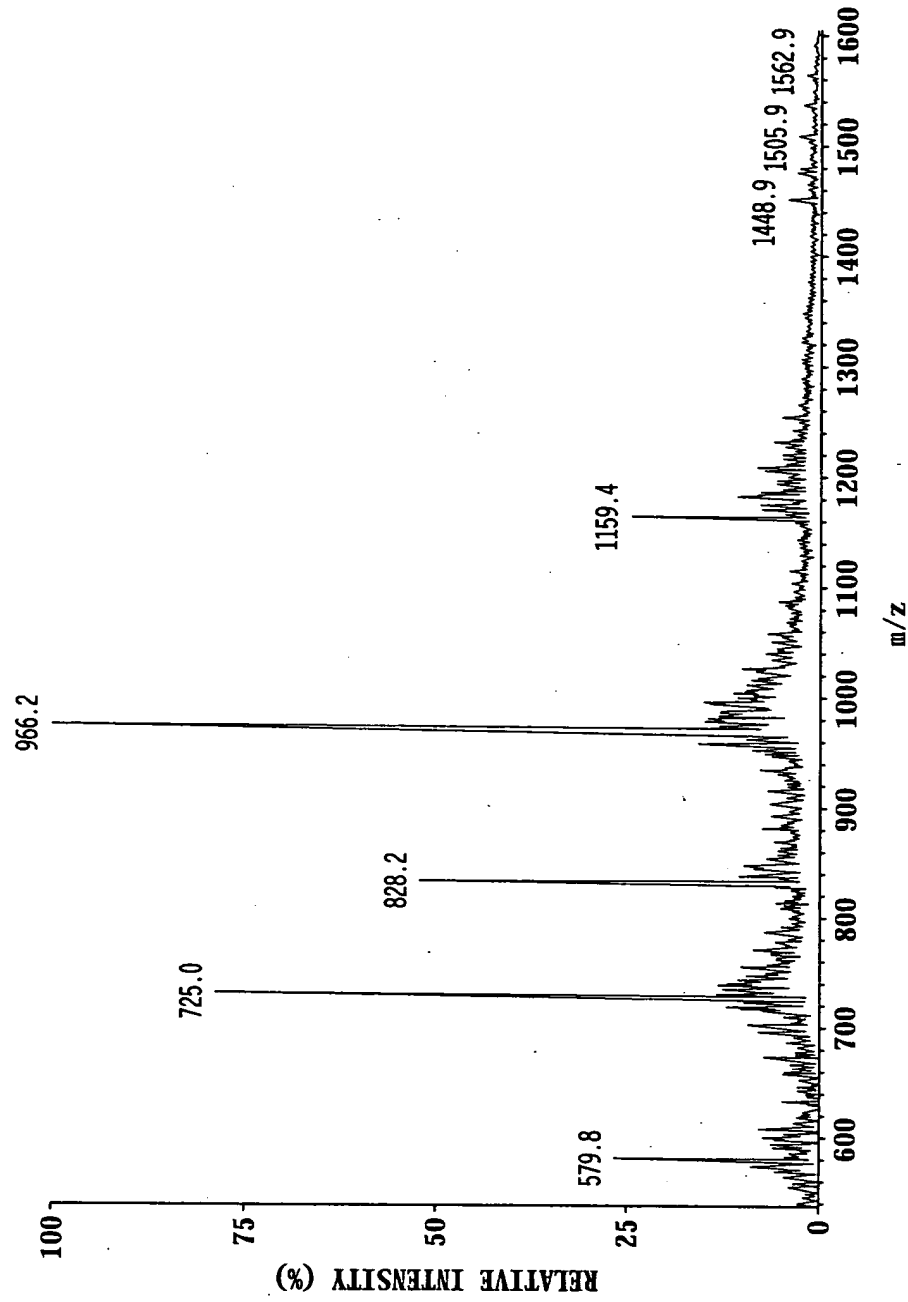
|

NH<sub>2</sub>-F P I P L P Y C W L A R A L I K R I Q A M I P K G - COOH

*Amino acid sequence of SP-B 1-25 (Cys-11 > Ala-11) variant homodimer*

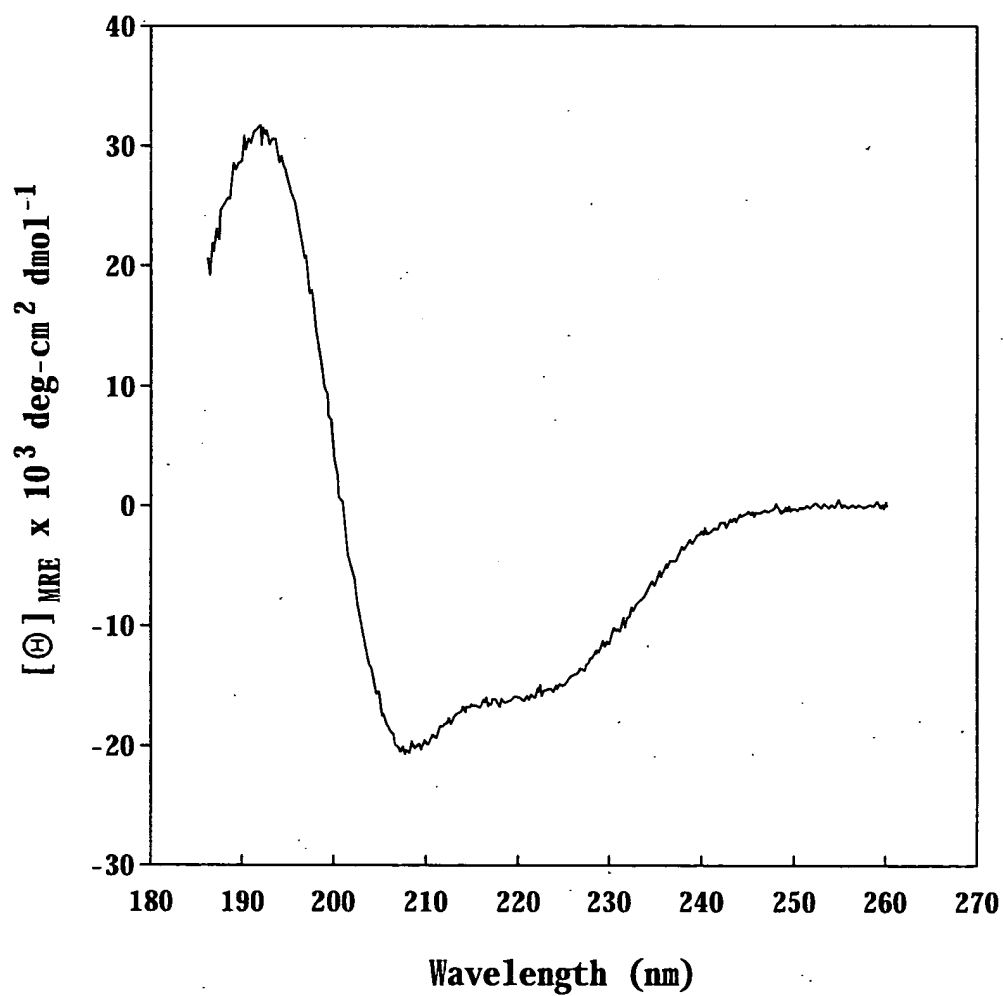
## FIG. 3

*Electrospray SP-B 1-25 (Cys-11 > Ala-11) variant disulfide linked homodimer*



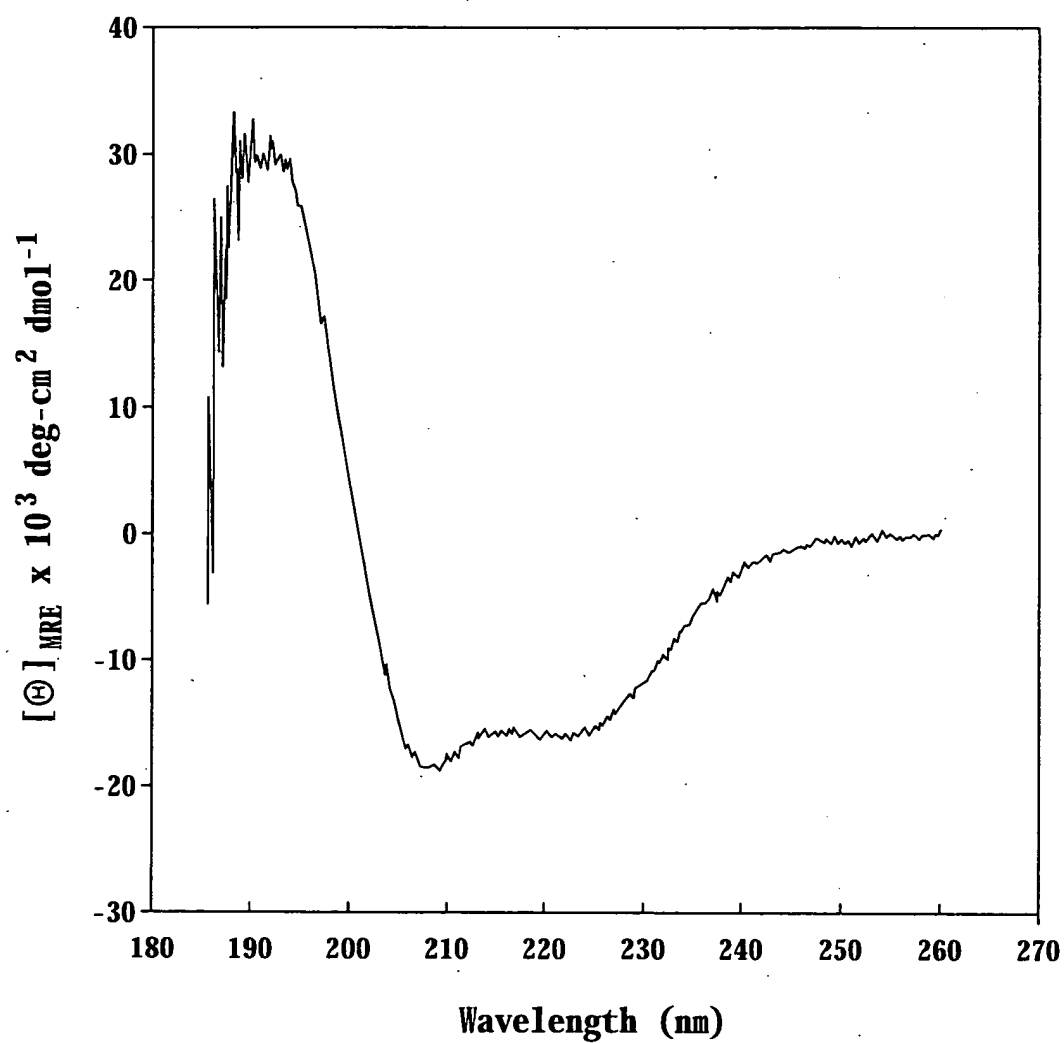
**FIG. 4**

CD spectrum of SP-B 1-25 dimer in structure promoting solvent system of TFE:phosphate buffer



*FIG. 5*

**CD spectrum of SP-B 1-25 dimer in  
POPG liposomes with PBS Buffer**



**FIG. 6**

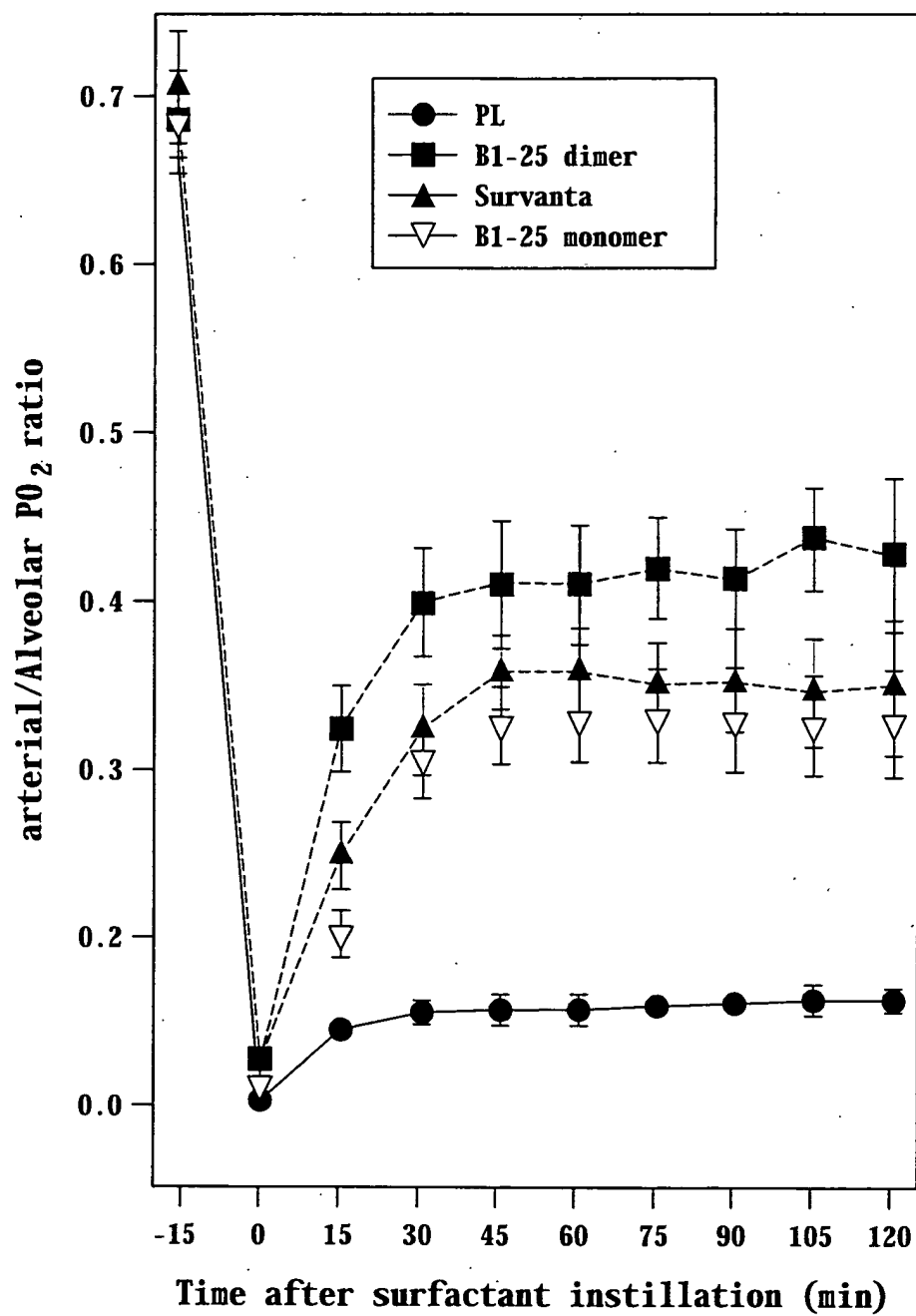
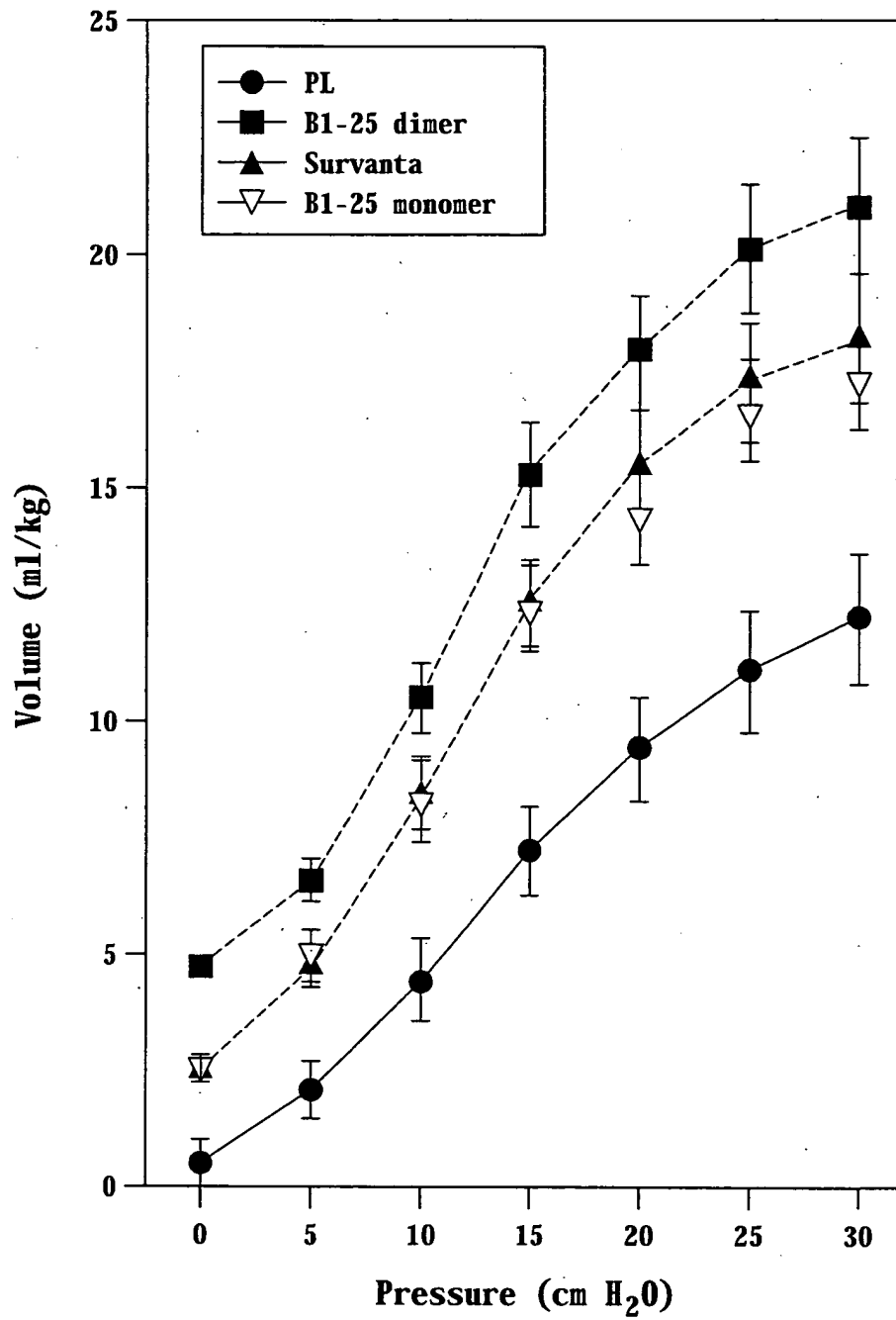
arterial/Alveolar  $P_{O_2}$  ratio in lavaged rats

FIG. 7

**Pressure-volume curves in lavaged rats***FIG. 8*

## Pressure-volume curves in 27 d gestation rabbits

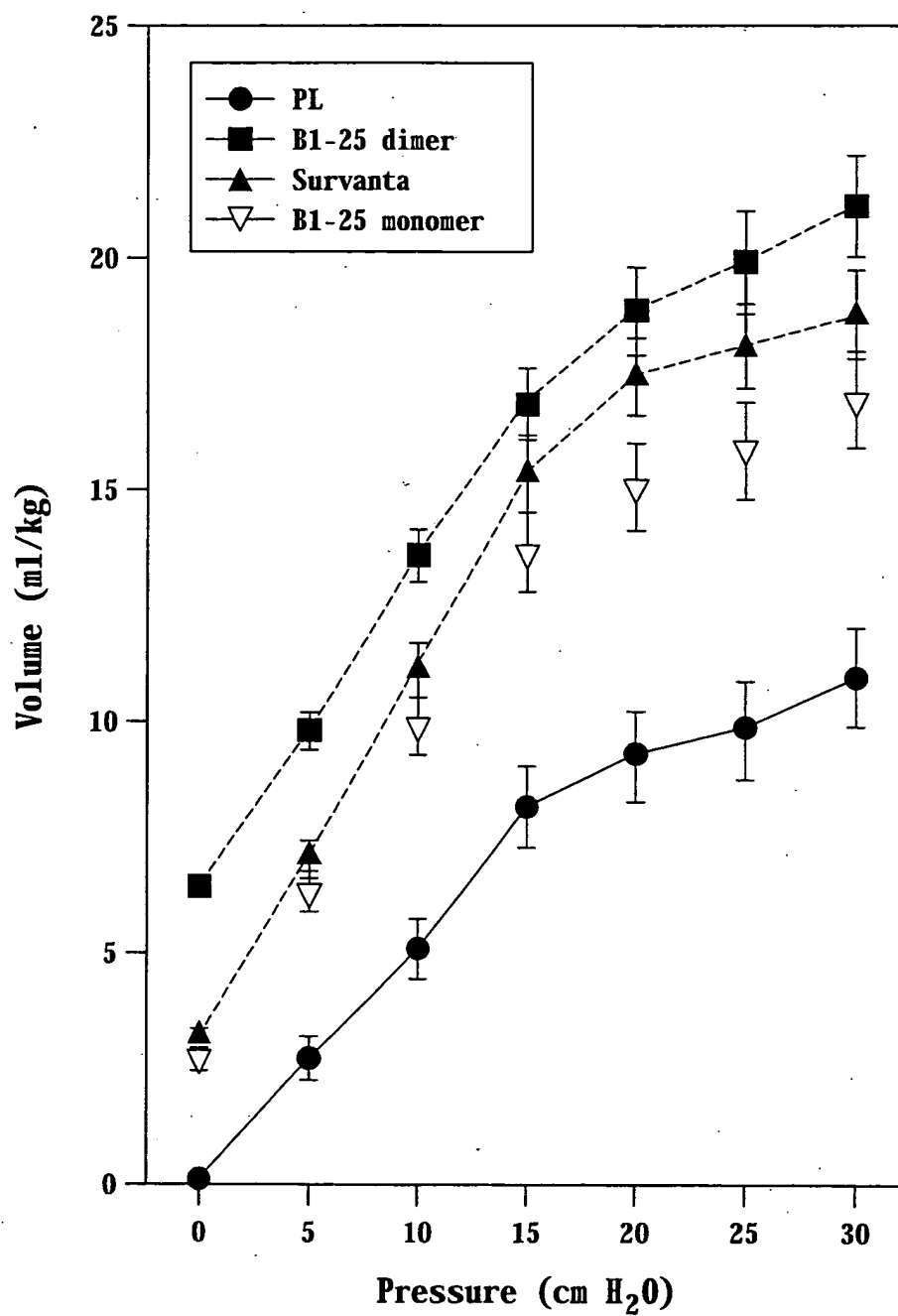


FIG. 9